11

1. a) Type #1

b) 0

c) $5/K$

d) $K \geq 100$

2. $K \geq 10.25$

3. For $K \geq 100$

4. a) $\frac{1}{s^2 + 5s + K}$

b) 0.1

c) No, b/c output is corrupted.

12

1. Use block diagram reduction + algebra.

2. Yes, b/c Hurwitz criterion are met

13

1. $K < -3/4$ for Hurwitz criterion

2. a) 2 poles in RHP

b) $K > 18$

Bonus: